

ABSTRACT OF THE INVENTION

The invention provides a method for generating an enhanced image, the
5 method including the steps of: (a) receiving a matrix of pixels representative of an
image; (b) generating a gradient image representative of a difference between
values of adjacent pixels; (c) calculating a center of mass for each pixel of the
gradient image in response to gradient intensity values and location values of
neighboring pixels; and (d) generating an enhanced image by modifying intensity
10 values of pixels of the matrix of pixels that are located in a vicinity of local centers
of mass in response to intensity values of pixels that are further displaced from
the local centers of mass.

The invention provides a method for generating an enhanced image, the
method including the steps of: (a) receiving a matrix of pixels representative of an
15 image; (b) estimating at least one edge of the image; and (c) generating an
enhanced image by modifying intensity values of pixels of the matrix of pixels
that are located in a vicinity of the at least one estimated edge in response to
intensity values of pixels that are further displaced from the at least one edge.